

**ARIZONA GAME AND FISH DEPARTMENT
HABITAT PARTNERSHIP COMMITTEE
HABITAT ENHANCEMENT AND WILDLIFE MANAGEMENT PROPOSAL**

Game Branch / HPC Project Number: 12-111

PROJECT INFORMATION

Project Title: Powerline and Ryan Catchments

Region and Game Management Unit: Region 1, GMU 4B

Local Habitat Partnership Committee (LHPC):

- Winslow

Was the project presented to the LHPC?

YES☒ **NO**☐

Has this project been submitted in previous years? YES☐ NO☒

If Yes, was it funded? YES☐ NO☐ → **Funded HPC Project #(s):**

Project Type: New Water Development & Water Development Renovation

Brief Project Summary:

Redevelop Powerline catchment (2013)(nonoperational) from a capacity of 2,975 gallons to 11,400 gallons and develop Ryan catchment (2014), new at 11,400 gallons.

Big Game Wildlife Species to Benefit: Elk, Deer, Javelina

Implementation Schedule (Month/Day/Year):

Project Start Date:

February, 2012

Project End Date:

December, 2014

Environmental Compliance:

NEPA Completed: Yes☐ No☒ N/A☐

Projected Completion Date: March 2013

State Historic Preservation Office - Archaeological Clearance:

Yes☐ No☒ N/A☐

Projected Completion Date: By March, 2013

Arizona Game and Fish Department EA Checklist: N/A☐

To be Completed by: E. LAUTZENHEISER

Projected Completion Date: Once project is funded, by March 2013

PROJECT FUNDING

Special Big Game License Tag Funds Requested:

\$ 75,006.00 (37,503.00/yr)

Cost Share or Matching Funds:

\$ 92,500.00

Total Project Costs:

\$ 167,506.00

PARTICIPANT INFORMATION

Applicant (please print):

Evan Lautzenheiser

Address:

2878 E. White Mountain Blvd

Pinetop, AZ 85935

E-mail:

elautzenheiser@azgfd.gov

Telephone: 928-358-8319

Date: 8/30/2012

AGFD Contact and Phone No. (If applicant is not AGFD personnel):

S.A.A

Project has been coordinated with: USFS, AGFD -Development Branch, APS

NEPA EXPLANATION:

APS will contribute \$20,000 to this two year project; \$10,000 per year. Since NEPA and cultural resource surveys are not completed, they've agreed to allow some of their funds to cover necessary costs for those items if necessary. The forest service has agreed to this and is prepared to complete the NEPA and cultural resource surveys prior to the implementation schedule.

NEED STATEMENT – PROBLEM ANALYSIS:

Permanent water is the single biggest limiting factor for wildlife in Unit 4B. Many of the existing water sources have not been maintained through the years resulting in poor water distribution and availability for wildlife. We propose to continue addressing these needs through the redevelopment of two existing water sources; Powerline and Ryan Catchments. The Powerline catchment is a United States Forest Service (USFS) guzzler identified by the Arizona Game and Fish Department, Region I, 4B district plan, as a high priority water redevelopment within Game Management Unit 4B; built in the 1950's. The guzzler is not working and has small storage capacity (2,975 gallons) but has the potential of providing a permanent water source for good numbers of elk and deer in the immediate area. Currently the closest permanent water is approximately 3.78 miles away. Powerline catchment is approximately 1.79 miles from another USFS catchment (Point), but it's across a Wildcat Canyon and is known to run dry during drought years.

Powerline catchment is located in the southern portion of Unit 4B, north of Forest Road 504 and west of Forest Road 176, located on the Apache-Sitgreaves National Forest. It is located in Pinion – Juniper mixed woodland and adjacent to Chevelon and Wildcat Canyons. This area supports good numbers of elk and mule deer and an increasing number of javelina. There is limited seasonal water available in the area, however, with seasonal water most wildlife in this area are transient.

Ryan catchment is a new proposed guzzler in a location currently without a permanent water source within the preferred 1.5 miles. When completed there would be two catchments approximately 1.5 – 2.0 miles from the new Ryan catchment (Powerline and Heber #568). It is located in Pinion – Juniper mixed woodland and adjacent to Chevelon Canyon. This area supports good numbers of elk and mule deer and an increasing number of javelina. There is limited seasonal water available in the area, however, with seasonal water most wildlife in this area are transient.

The one thing missing in this area is a reliable source of perennial water.

The primary purpose of this proposal is to increase perennial water availability in areas of Unit 4B that are lacking permanent water for wildlife. With a goal of perennial water coverage across all parts of Unit 4B, all species both game and non-game will benefit. This will enable animals to better distribute themselves across a larger area. Using a two-mile radius to evaluated perennial water distribution, these catchment have the potential to positively affect approximately 40,000 acres that currently has no perennial water coverage.

PROJECT OBJECTIVES:

To redevelop 1 water catchment (Powerline) and develop a new water catchment (Ryan) that will provide wildlife with perennial water. This is part of an overall goal to provide perennial water for wildlife across the entire unit. The project would be conducted over a 2 year period, with Powerline catchment redeveloped during year 1 and Ryan catchment built during year 2

PROJECT DESCRIPTION AND STRATEGIES:

- Powerline catchment: Replace the existing steel apron and steel tank (2,975 gal) with two 3' x18' buried fiberglass ring tanks (11,400 gal), 24'x96' fenced R-panel apron, fiberglass walk-in "elk" drinker (3' deep x 5' wide x 12' long) and a wildlife friendly pipe-rail perimeter fence (200' x 200'). See attached CADD drawings.
- Ryan catchment: Install 2, 3'x18' fiberglass ring tanks (11,400 gal), 24'x120' fenced R-panel apron, fiberglass walk-in standard "elk" drinker (1000 gal) and a wildlife friendly pipe-rail perimeter fence (150'x150'). See attached cad drawings.
- Provide a relatively maintenance free perennial water source to wildlife in an area that lacks perennial water.

PROJECT LOCATION:

- 1.) Powerline:T14N, R151/2E, section 10. See attached map. Land ownership for this project is Forest Service.
- 2.) Ryan: T14N, R151/2E, section 21. See attached map. Land ownership for this project is Forest Service.

LAND OWNERSHIP AT THE PROJECT SITE(S):

(if the project area is private property, please state specifically and provide the landowner's name)

- USDA Forest Service, Apache-Sitgreaves National Forest, Black Mesa Ranger District

IF PRIVATE PROPERTY, IS THERE A COOPERATIVE BIG GAME STEWARDSHIP or LANDOWNER AGREEMENT BETWEEN THE LANDOWNER AND THE DEPARTMENT?
YES[] NO[] N/A[X]

HABITAT DESCRIPTION:

Madrean Montane Conifer Forest with the principal woodland species consisting of ponderosa pine and Pinion Juniper woodland. Browse species such as Cliff rose are present in the area. Elevations in the project area range from 6,300 to 6,500 feet. Forage conditions are good in this habitat type.

ITEMIZED USE OF FUNDS:

Special Big Game License Tag Funds

| Quantity | Item | Price |
|----------|------------------------------|-------------|
| 4 (2/yr) | 3'x18' fiberglass ring tanks | \$40,040.00 |
| 2 (1/yr) | Elk trough | \$ 7,868.00 |
| 2 (1/yr) | 24'x72' apron | \$11,850.00 |
| 2 (1/yr) | 24' fiberglass gutter | \$ 1468.00 |
| 2 (1/yr) | Livestock fencing | \$ 6,780.00 |
| 2 (1/yr) | Plumbing | \$ 1000.00 |

(\$10,010.00 per tank)

Catchment Costs:

Sub-total = \$69,006.00
Tax = \$6000.00
Total = \$75,006.00 (37,503.00/yr)

Cost Share Funding

Arizona Game & Fish:

Labor + Equipment + Vehicle + Per Diem (for length of the project) = \$20,000

Arizona Power Supply (APS) (Cost Share)

Archeological clearance = \$20,000 (\$10,000/yr)

Construction

Volunteer labor = \$50,000.00 (\$25,000/yr)

USDA Forest Service:

Environmental compliance work = \$2,500 (**complete by March 2013**)

Total Cost Share = \$92,500.00

Total Project Cost = \$167,506.00

LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:

- Arizona Game and Fish will coordinate and construct or contract the construction of these projects
- USDA Forest Service/ Environmental Compliance
- APS – cost share materials/Arch clearances

WOULD IMPLEMENTATION OF THIS PROJECT ASSIST IN PROVIDING, MAINTAINING, OR FACILITATING RECREATIONAL ACCESS?

YES[X] NO[] N/A[]

PROJECT MONITORING PLAN:

Arizona Game and Fish conducts wildlife surveys for elk and deer in the project area. The Department will continue to do surveys and analyze the data with respects to this project. Some anticipated outcomes from the project are better wildlife distribution leading to improved range conditions and more positive hunting opportunities.

PROJECT MAINTENANCE:

AZGF will monitor and complete all maintenance needs at these wildlife waters.

PROJECT COMPLETION REPORT TO BE FILED BY:

E. LAUTZENHEISER

WATER DEVELOPMENT PROJECTS (*please use the worksheet below*):

ARIZONA GAME AND FISH DEPARTMENT **WATER DEVELOPMENT WORKSHEET**

PROJECT NAME: Powerline Catchment

1) **Is the water development listed as a priority in the most recent “Wildlife Water Development**

Annual Implementation Schedule?”

yes

2) **Please list the Development Branch personnel and date coordinated with for this project.**
Joe Currie Feb 2012

3) **What is the estimated annual inches of precipitation for the area? (mark one)**

 2-4 4-6 6-8 8-10 10-12 X 12-14 14-16 >16

4) **Is there a perennial water source available to big game within four miles of this project?**

 X YES (please complete #5 below) NO (skip #5 below)

5) **For the accessible, perennial water source nearest this project:**

Name of water source: Point

Type of water source (catchment, spring, dirt tank, etc.): catchment

Ownership of water source: Forest Service

Distance in miles from project: 1.81 miles

6) **Is the target wildlife species a result of transplant efforts?** YES X NO

7) **Please list any special land management status for the project site (i.e. Wilderness, National Park, National Monument, etc). If private land, list landowner.**

N/A

8) **Please provide the following information about access to the proposed site:**

Type of access (mark one): X 2x4 vehicles 4x4 only foot only**

**If foot access only: Distance in miles: Approx. hiking time:

-- Does access to this site require crossing private or tribal lands? YES X NO

-- Please describe any restrictions to public access: N/A

9) **Please list below (or on a separate sheet) the material type and dimensions of each component proposed to be added, modified, or repaired.**

- (2) 3’ deep X 18’ diameter Fiberglass ring tank
- (1) 3’ deep Fiberglass “Elk” Trough
- (1) 24’ Standard Fiberglass Gutter
- (1) Standard 200’ X 200’ Pipherail enclosure fence
- (0) Standard Apron Enclosure fence
- (1) 24’ wide X 96’ long R-panel apron and metal frame

- (1) Standard trough drinkers
- Assorted plumbing

10) Was a site visit completed? X Yes ___ No

If Yes, please list personnel that attended and date.

Evan Lautzenheiser AZFGD, Joe Currie AZGFD, Racheal Vaughn USDA Forest Service in Feb 2012

Evan Lautzenheiser, AZGFD, Dave Seery USDA Forest Service, Peggy Jelen APS April 2012

ARIZONA GAME AND FISH DEPARTMENT **WATER DEVELOPMENT WORKSHEET**

PROJECT NAME: Ryan Catchment

- 1) **Is the water development listed as a priority in the most recent “Wildlife Water Development Annual Implementation Schedule?”**
Yes
- 2) **Please list the Development Branch personnel and date coordinated with for this project.**
Joe Currie Feb 2012
- 3) **What is the estimated annual inches of precipitation for the area? (mark one)**
___2-4 ___4-6 ___6-8 ___8-10 ___10-12 X12-14 ___14-16 ___>16
- 4) **Is there a perennial water source available to big game within four miles of this project?**
X YES (please complete #5 below) ___NO (skip #5 below)
- 5) **For the accessible, perennial water source nearest this project:**
Name of water source: Heber #568
Type of water source (catchment, spring, dirt tank, etc.): catchment
Ownership of water source: AGFD
Distance in miles from project: 2.23 miles
- 6) **Is the target wildlife species a result of transplant efforts?** ___YES XNO
- 7) **Please list any special land management status for the project site (i.e. Wilderness, National Park, National Monument, etc). If private land, list landowner.**
N/A
- 8) **Please provide the following information about access to the proposed site:**
Type of access (mark one): X2x4 vehicles ___4x4 only ___foot only**
**If foot access only: Distance in miles: Approx. hiking time:

-- Does access to this site require crossing private or tribal lands? ___YES XNO

-- Please describe any restrictions to public access: N/A
- 11) **Please list below (or on a separate sheet) the material type and dimensions of each component proposed to be added, modified, or repaired.**
 - (2) 3’deep X 18’diameter Fiberglass ring tank
 - (1) 3’deep Fiberglass “Elk” Trough
 - (1) 24’ Standard Fiberglass Gutter
 - (1) Standard 200’ X 200’ Piperaill enclosure fence
 - (0) Standard Apron Enclosure fence
 - (1) 24’wide X 96’long R-panel apron and metal frame
 - (1) Standard trough drinkers
 - Assorted plumbing

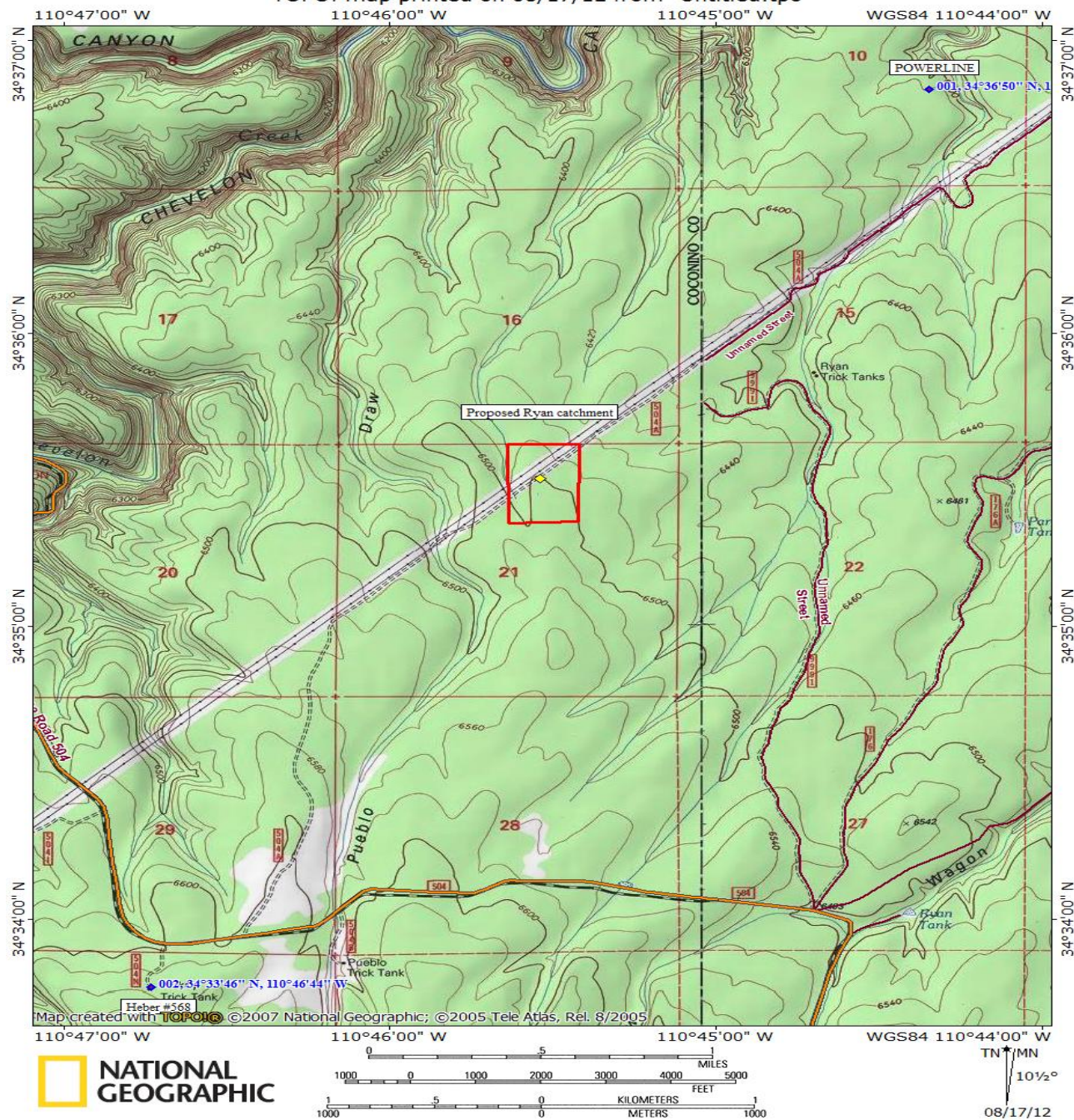
12) Was a site visit completed? X Yes ___ No

If Yes, please list personnel that attended and date.

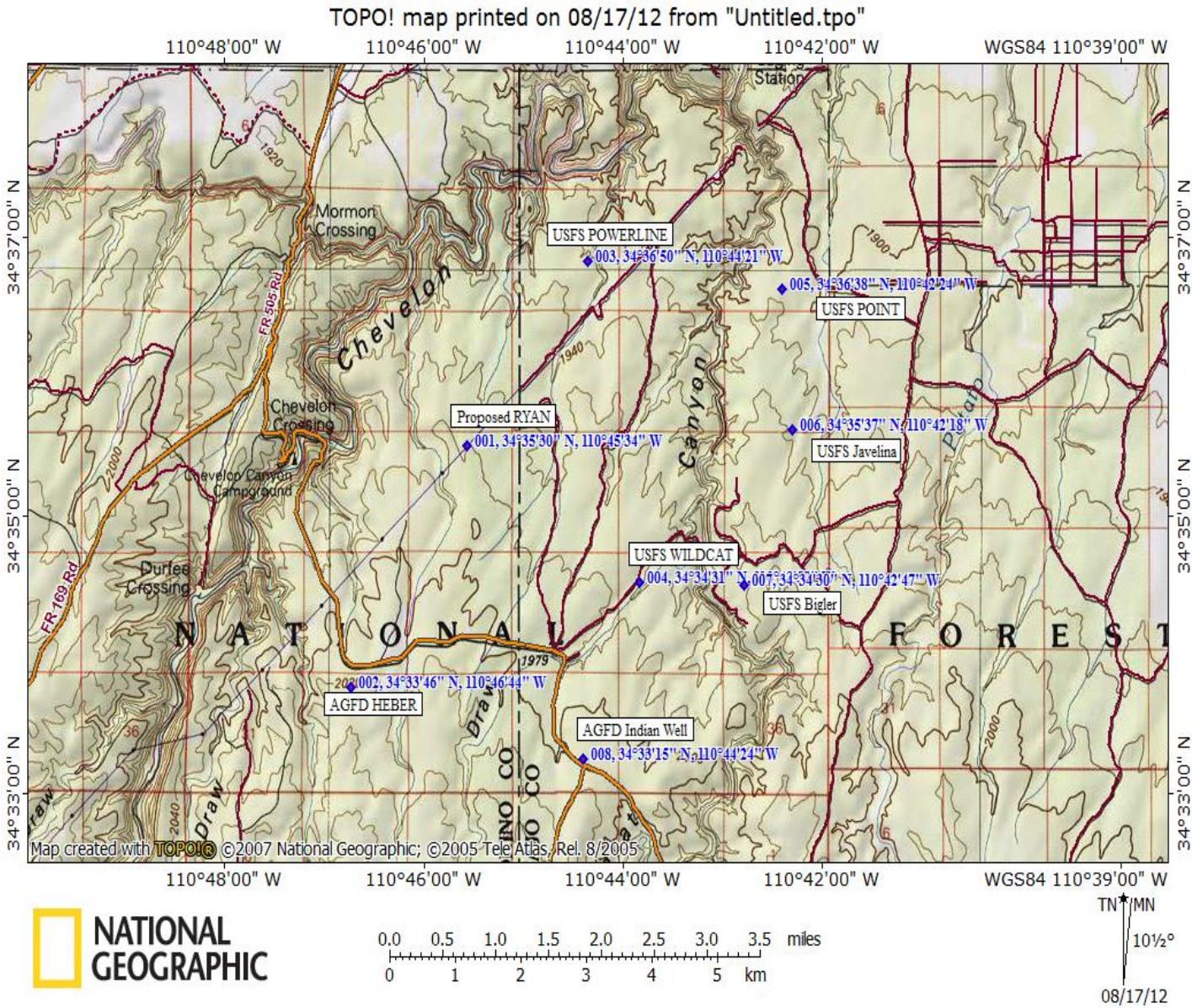
Evan Lautzenheiser AZFGD, Joe Currie AZGFD, Racheal Vaughn USDA Forest Service in Feb 2012

Evan Lautzenheiser, AZGFD, Dave Seery USDA Forest Service, Peggy Jelen APS April 2012

TOPO! map printed on 08/17/12 from "Untitled.tpo"



Project location (general)

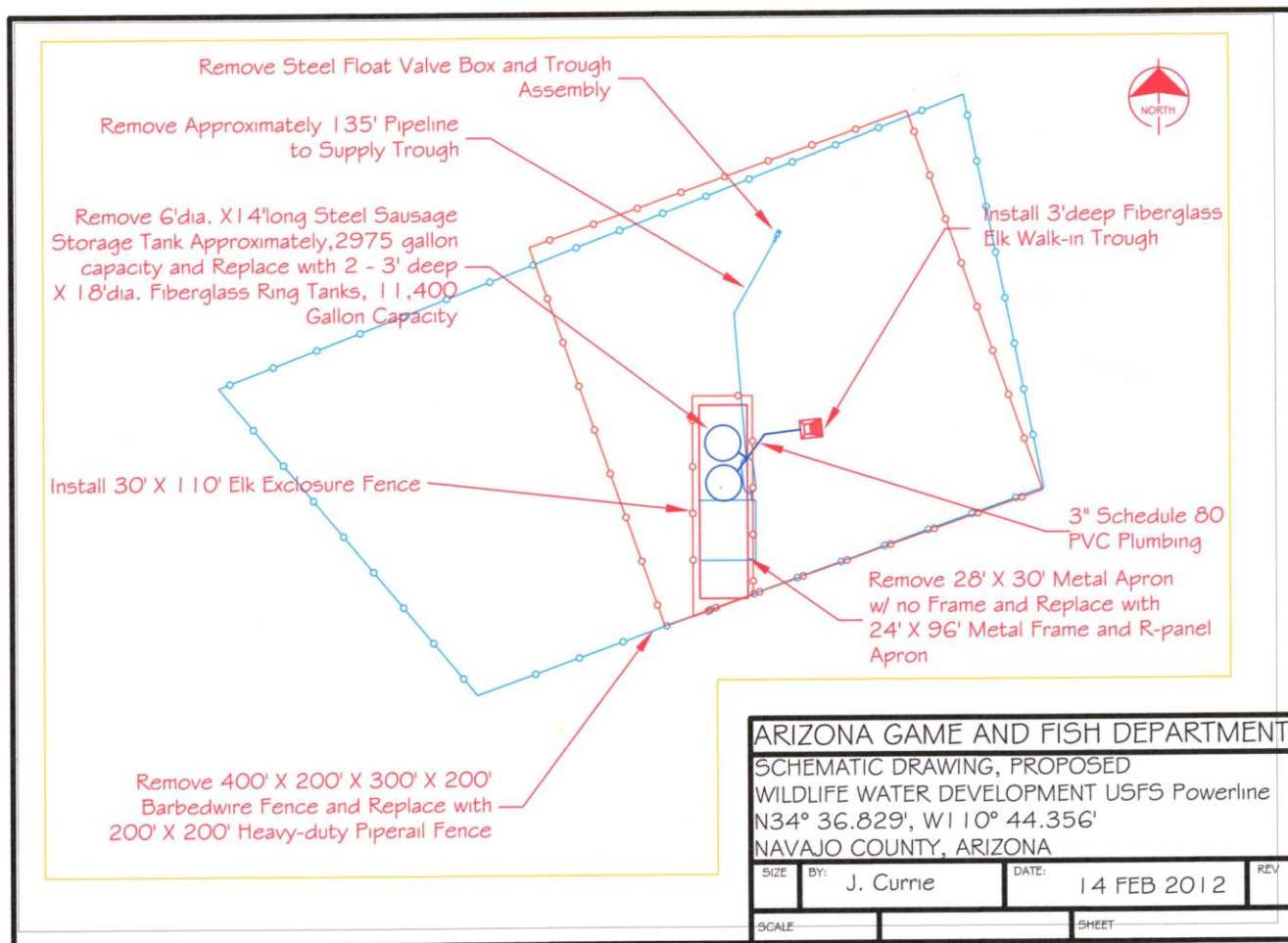


Powerline



CADD Drawings

Powerline proposed



Ryan proposed

